

Patent
09/574,688

Please amend Claims 1, 10 and 17 as follows:

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1. (Amended) An electrical medical electrode connector comprising:
a housing, wherein at least one end of the housing forms a cable connector;
an electrical conductor electrically connected to a socket within a shell of the cable connector; and
an identifier disposed within the housing that communicates information to a defibrillator,
wherein said identifier comprises means for altering light received by a photosensor in the defibrillator, the altering of the light communicating identification information upon insertion into an electrode connector receptacle of the defibrillator.

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10. (Amended) A defibrillator comprising:
at least one electrode pad having an electrode pad type operable to contact a patient;
a medical electrode connector, connected to the defibrillator electrode pad on one end and the defibrillator on the other end, operable to identify the electrode pad type to the defibrillator;
a front-end circuit operation to be coupled to the electrode pad and to receive identification information from the electrode pad;
a shock delivery circuit coupled to the electrode pad; and
a processor coupled to the front-end and shock delivery circuits and operable to determine whether the patient is experiencing a shockable heart condition and to enable the shock-delivery circuit to deliver a shock to the patient via the electrode pads if the processor determines that the patient is experiencing a shockable heart condition,
wherein said medical electrode connector further comprises means for altering light received by a photosensor in the defibrillator, the altering of the light allowing said medical electrode connector to identify the electrode pad type to the defibrillator.

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17. (Amended) A method of deploying a defibrillator comprising:
turning the defibrillator on;
attaching electrode pads to a patient;
inserting a cable connector associated with the electrode pads into a housing for
receiving the cable connector within the defibrillator;
identifying the type of electrode pads based on an identifier within the cable
connector associated with the electrode pads, wherein said identifying step further
comprises the step of altering light received by a photosensor in the defibrillator, the
altering of the light allowing the defibrillator to identify the type of electrode pads;
altering therapy delivered by the defibrillator based on the type of electrode pads
identified; and
altering patient care instructions such as CPR based on the type of electrode pads
identified.

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Please add Claims 31-40 as follows:

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--31. The electrical medical electrode connector of claim 1 wherein the means
for altering light received by a photosensor detects the presence or absence of one or more
windows in the electrode connector.

32. The electrical medical electrode connector of claim 1 wherein the means
for altering light received by a photosensor uses a window of varying optical density or
color in the electrode connector.

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33. An electrical medical electrode connector comprising:
a housing, wherein at least one end of the housing forms a cable connector;
an electrical conductor electrically connected to a socket within a shell of the cable connector;

an identifier disposed within the housing that communicates information to a defibrillator,

wherein said identifier comprises mechanical protrusions or depressions in the electrode connector, the protrusions or depressions configured to communicate identification information upon insertion into an electrode connector receptacle of the defibrillator.

34. An electrical medical electrode connector comprising:
a housing, wherein at least one end of the housing forms a cable connector;
an electrical conductor electrically connected to a socket within a shell of the cable connector;

an identifier disposed within the housing that communicates information to a defibrillator,

wherein said identifier comprises electrical contact encoding, the encoding configured to communicate identification information upon contact with interface electronics upon insertion into an electrode connector receptacle of the defibrillator.

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35. An electrical medical electrode connector comprising:
a housing, wherein at least one end of the housing forms a cable connector;
an electrical conductor electrically connected to a socket within a shell of the cable connector;

an identifier disposed within the housing that communicates information to a defibrillator,

wherein said identifier comprises inductive and capacitive circuit elements configured to communicate specific resonant electrical characteristics upon insertion into an electrode connector receptacle of the defibrillator by modifying an RF signal sent from an RF transmitter to an RF receiver both located near the electrode connector receptacle of the defibrillator.

36. An electrical medical electrode connector comprising:
a housing, wherein at least one end of the housing forms a cable connector;
an electrical conductor electrically connected to a socket within a shell of the cable connector;

an identifier disposed within the housing that communicates information to a defibrillator,

wherein said identifier comprises a specific resistance across sense connections to communicate specific resistance characteristics upon insertion into an electrode connector receptacle of the defibrillator.

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37. An electrical medical electrode connector comprising:
a housing, wherein at least one end of the housing forms a cable connector;
an electrical conductor electrically connected to a socket within a shell of the cable connector;
an identifier disposed within the housing that communicates information to a defibrillator,
wherein said identifier comprises capacitance encoding, the encoding configured to communicate identification information upon contact with interface electronics upon insertion into an electrode connector receptacle of the defibrillator.

38. An electrical medical electrode connector comprising:
a housing, wherein at least one end of the housing forms a cable connector;
an electrical conductor electrically connected to a socket within a shell of the cable connector;
an identifier disposed within the housing that communicates information to a defibrillator,
wherein said identifier comprises at least one magnet configured to communicate identification information upon contact with interface electronics upon insertion into an electrode connector receptacle of the defibrillator.

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cont

39. A method of deploying a defibrillator comprising:
turning the defibrillator on;
attaching electrode pads to a patient;
inserting a cable connector associated with the electrode pads into a housing for
receiving the cable connector within the defibrillator;
identifying the type of electrode pads based on an identifier within the cable
connector associated with the electrode pads, wherein said identifying step further
detecting a magnetic field in the cable connector;
altering therapy delivered by the defibrillator based on the type of electrode pads
identified; and
altering patient care instructions such as CPR based on the type of electrode pads
identified.

40. The method of claim 39 further comprising the step of:
adjusting an amount of energy delivered to a patient in response to the electrode
pad identification.--.

REMARKS

Claims 1-7, 10-12 and 17-40 are now under consideration. Claims 8-9 and 13-16 have been canceled. Claims 1, 10 and 17, the original independent claims, have been amended. Claims 31-40 have been added, of which Claims 33-39 are independent. Attached hereto, captioned "Version with markings to show changes made", is a marked-up version of the changes made to the claims.